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Date: May 12, 2009

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COMMENTS:

Re Application No. 10/519,342 for Li, et al.

PROPOSED DRAFT FOR INTERVIEW DISCUSSION PURPOSES ONLY
DO NOT ENTER

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Appl. No. : 10/519,342 Confirmation No. 2504
Applicant : Li et al.
Title : METHODS AND COMPOSITIONS FOR
MANIPULATING THE GUIDED NAVIGATION OF
ENDOTHELIAL TUBES DURING ANGIOGENESIS
Filed : September 21, 2005
TC/A.U. : 1647
Examiner : David S. Romeo
Docket No. : 38263/19
Customer No. : 32642

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

PROPOSED DRAFT AMENDMENT

Dear Sir:

In response to the Office Action of February 19, 2009, please amend the above-identified application as follows:

The **Listing of Claims** begins on page 2 of this paper.

Appl. No.10/519,342

DRAFT Amdt. dated May 12, 2009

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Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claim in the application:

Listing of Claims:

Claims 1 through 6 canceled.

7. (Currently Amended) A method of ~~preventing guided navigation of endothelial tubes during angiogenesis to a target cell mass~~ inhibiting migration human microvascular endothelial cells (HMVECs) expressing a native Robo-4 receptor, wherein ~~said endothelial tubes express a Robo-4 receptor,~~ the method comprising ~~activating said Robo-4 receptor, wherein activating said Robo-4 receptor~~ exposing said HMVECs to a Slit ligand, wherein exposing said HMVECs to said Slit ligand inhibits the ~~guided navigation of the endothelial tubes toward the target cell mass~~ migration of said HMVECs.

8. (Currently Amended) The method of claim 7, wherein ~~activating said Robo-4 receptor comprises providing a ligand capable of activating said Robo-4 receptor and exposing said endothelial tubes to the ligand,~~ wherein ~~said exposure of said endothelial tubes to said ligand~~ inhibits the guided navigation of the endothelial tubes ~~toward the target cell mass~~ exposing said HMVECs to a Slit ligand comprises exposing said HMVECs to a Slit2 ligand.

9. (Currently Amended) The method of claim 8, wherein ~~providing a ligand capable of activating said Robo-4 receptor comprises providing a Slit~~ exposing said HMVECs to a Slit2 ligand comprises exposing said HMVECs to a human Slit2 ligand or a fragment thereof.

Claims 10 through 18 canceled.

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19. (Currently Amended) A method of preventing angiogenesis in ~~endothelium tissue expressing Robo-4 receptor~~, the method comprising, ~~activating said Robo-4 receptor, wherein activating said Robo-4 receptor inhibits migration of endothelial cells~~ inhibiting migration of HMVECs expressing a native Robo-4 receptor, wherein inhibiting migration of said HMVECs comprises providing a Slit ligand and exposing said HMVECs to said Slit ligand such that migration of said HMVECs is inhibited

20. (Currently Amended) The method of claim 19, wherein ~~activating said Robo-4 receptor comprises providing a ligand capable of activating said Robo-4 receptor and exposing the endothelium tissue to the ligand, wherein said exposure of said endothelium tissue to said ligand inhibits migration of endothelial cells~~ providing a Slit ligand comprises providing a Slit2 ligand.

21. (Currently Amended) The method of claim 20, wherein ~~providing a ligand capable of activating said Robo-4 receptor~~ providing a Slit2 ligand comprises providing ~~a Slit ligand~~ providing a human Slit2 ligand or a fragment thereof.

Claim 22 canceled.

Appl. No.10/519,342

DRAFT Amdt. dated May 12, 2009

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Respectfully submitted,

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Date: May 12, 2009

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